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24. **Defining new markets for intelligent agents**
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25. **OO in one sentence: keep it DRY, shy, and tell the other guy**
Hunt, A.; Thomas, D.;
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1 Object oriented simulation tools necessary for a flexible batch process management architecture
Chell A. Roberts, Terrence G. Beaumariage, Yasser Dessouky, Michael K. Ogle
December 1991 **Proceedings of the 23rd conference on Winter simulation WSC '91**
Publisher: IEEE Computer Society
Full text available: pdf(927.59 KB) Additional Information: full citation, references, index terms

2 An approach to object-oriented discrete-event simulation of manufacturing systems
John P. Shewchuk, Tien-Chien Chang
December 1991 **Proceedings of the 23rd conference on Winter simulation WSC '91**
Publisher: IEEE Computer Society
Full text available: pdf(982.11 KB) Additional Information: full citation, references, citings, index terms

3 Impulse-86: a substrate for object-oriented interface design
Reid G. Smith, Rich Dinitz, Paul Barth
June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPLSA '86**, Volume 21 Issue 11
Publisher: ACM Press
Full text available: pdf(788.75 KB) Additional Information: full citation, abstract, references, citings, index terms

Impulse-86 provides a general and extensible substrate upon which to construct a wide variety of interactive user interfaces for developing, maintaining, and using knowledge-based systems. The system is based on five major building blocks: Editor, Editor Window, PropertyDisplay, Menu, and Operations. These building blocks are interconnected via a uniform framework and each has a well-defined set of responsibilities in an interface.Customized inte ...

4 Reducing cross domain call overhead using batched futures
Phillip Bogle, Barbara Liskov
October 1994 **ACM SIGPLAN Notices , Proceedings of the ninth annual conference on Object-oriented programming systems, language, and applications OOPSLA '94**, Volume 29 Issue 10

Publisher: ACM Press

Full text available: pdf(1.65 MB) Additional Information: full citation, abstract, references, citings, index terms

In many systems such as operating systems and databases it is important to run client code in a separate protection domain so that it cannot interfere with correct operation of the system. Clients communicate with the server by making cross domain calls, but these are expensive, often costing substantially more than running the call itself. This paper describes a new mechanism called batched futures that transparently batches possibly interrelated client calls. Batching makes domain crossin ...

5 An object-oriented job execution environment

Lance Smith, Rod Fatoohi

November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM) Supercomputing '00**

Publisher: IEEE Computer Society

Full text available: pdf(205.79 KB) Publisher Site Additional Information: full citation, abstract, references, index terms

This is a project for developing a distributed job execution environment for highly iterative jobs. An iterative job is one where the same binary code is run hundreds of times with incremental changes in the input values for each run. An execution environment is a set of resources on a computing platform that can be made available to run the job and hold the output until it is collected. The goal is to design a complete, object-oriented scheduling system that will run a variety of jobs with ...

Keywords: job scheduling, object-orientation, Java, and CORBA

6 Process management and exception handling in multiprocessor operating systems using object-oriented design techniques

Vincent Russo, Gary Johnston, Roy Campbell

January 1988 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPSLA '88**, Volume 23 Issue 11

Publisher: ACM Press

Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, references, citings, index terms

The programming of the interrupt handling mechanisms, process switching primitives, scheduling mechanisms, and synchronization primitives of an operating system for a multiprocessor require both efficient code in order to support the needs of high-performance or real-time applications and careful organization to facilitate maintenance. Although many advantages have been claimed for object-oriented class hierarchical languages and their corresponding design methodologies, the application of ...

7 Simulation-based scheduling: Semiconductor manufacturing: design, development and application of an object oriented simulation toolkit for real-time semiconductor manufacturing scheduling

Chin Soon Chong, Appa Iyer Sivakumar, Robert Gay

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers WSC '02**

Publisher: Winter Simulation Conference

Full text available: pdf(199.74 KB) Additional Information: full citation, abstract, references, citings

Real-time scheduling of semiconductor manufacturing operations, semiconductor test operations in particular, is complicated due to the following factors; multi-head resources,

multi-level hardware dependency, temperature and hardware criteria, dynamic determination of processing time and indexing time, batch processing and re-entrant flow. A first-of-its-kind, object oriented (OO), discrete event simulation (DES) toolkit, RTMSim++ for real-time simulation-based scheduling applications has bee ...

8 Production information management for batch manufacturing plants based on ECA mechanism and view generation

Hideyuki Takada, Hiromitsu Shimakawa, Yoshitomo Asano, Morikazu Takegaki

November 1996 **Proceedings of the workshop on on Databases: active and real-time CIKM '96**

Publisher: ACM Press

Full text available: pdf(416.02 KB) Additional Information: full citation, references, index terms

9 Reconciling responsiveness with performance in pure object-oriented languages

Urs Hölzle, David Ungar

July 1996 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 18 Issue 4

Publisher: ACM Press

Full text available: pdf(537.19 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Dynamically dispatched calls often limit the performance of object-oriented programs, since opject-oriented programming encourages factoring code into small, reusable units, thereby increasing the frequency of these expensive operations. Frequent calls not only slow down execution with the dispatch overhead per se, but more importantly they hinder optimization by limiting the range and effectiveness of standard global optimizations. In particular, dynamically dispatched calles prevent stand ...

Keywords: adaptive optimization, pause clustering, profile-based optimization, run-time compilation, type feedback

10 Garbage collection in object oriented systems (workshop session)

Niels Christian Juul, Eric Jul

October 1990 **Proceedings of the European conference on Object-oriented programming addendum : systems, languages, and applications: systems, languages, and applications OOPSLA/ECOOP '90**

Publisher: ACM Press

Full text available: pdf(831.28 KB) Additional Information: full citation, references, citings, index terms

11 Intermedia: The architecture and construction of an object-oriented hypemedia system and applications framework

Norman Meyrowitz

June 1986 **ACM SIGPLAN Notices , Conference proceedings on Object-oriented programming systems, languages and applications OOPLSA '86**, Volume 21 Issue 11

Publisher: ACM Press

Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, references, citings, index terms

This article presents a case study of the development of the Intermedia system, a large, object-oriented hypermedia system and associated applications development framework providing sophisticated document linkages. First it presents the educational and technological objectives underlying the project. Subsequent sections capture the process

of developing the Intermedia product and detail its architecture and construction, concentrating on the areas in which object-oriented technology has ha ...

12 Mission-critical objects

Kevin Pollari
October 1994 **ACM SIGPLAN OOPS Messenger , Addendum to the proceedings on Object-oriented programming systems, languages, and applications (Addendum) OOPSLA '94**, Volume 5 Issue 4
Publisher: ACM Press
Full text available: pdf(619.24 KB) Additional Information: full citation, references

13 Identifying objects using cluster and concept analysis

Arie van Deursen, Tobias Kuipers
May 1999 **Proceedings of the 21st international conference on Software engineering ICSE '99**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.19 MB) Additional Information: full citation, references, citings, index terms

14 An object-oriented approach to parameterized software in Ada

Ed Seidewitz, Mike Stark
June 1991 **Proceedings of the eighth annual Washington Ada symposium & summer SIGAda meeting on Ada: software: foundation for competitveness WADAS '91**
Publisher: ACM Press
Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references, citings, index terms

A parameterized software system is one that can be configured by selecting generalized models and providing specific parameter values to fit those models into a general design [Stark 1990]. This is in contrast to the top-down development approach where a system is designed first, and software is reused only when it fits into the design. The concept of parameterized software is particularly useful in a development environment such as the Goddard Space Flight Center Flight Dy ...

15 Design of object-oriented simulations in C++

Jeffrey A. Joines, Stephen D. Roberts
December 1994 **Proceedings of the 26th conference on Winter simulation WSC '94**
Publisher: Society for Computer Simulation International
Full text available: pdf(887.64 KB) Additional Information: full citation, references, citings, index terms

16 A rule-based object/task modelling approach

Qiming Chen
June 1986 **ACM SIGMOD Record , Proceedings of the 1986 ACM SIGMOD international conference on Management of data SIGMOD '86**, Volume 15 Issue 2
Publisher: ACM Press
Full text available: pdf(1.17 MB) Additional Information: full citation, abstract, references, citings, index terms

A rule-based object/task modelling approach is proposed which is characterized by specifying object behaviors and domain rules in terms of object-oriented logic programming, and specifying tasks and meta-rules in terms of network-oriented

formalism. In addition the concepts of associations, virtual objects, multiple level integrity control and net expressions are introduced. The object-oriented logic programming system is extended for supporting the semantic modelling, and an explicit contr ...

17 Panel on design methodology

Reid Smith
January 1987 **ACM SIGPLAN Notices , Addendum to the proceedings on Object-oriented programming systems, languages and applications (Addendum) OOPSLA '87**, Volume 23 Issue 5
Publisher: ACM Press
Full text available: pdf(459.32 KB) Additional Information: full citation, index terms

18 Index configuration in object-oriented databases

Elisa Bertino
July 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 3
Publisher: Springer-Verlag New York, Inc.
Full text available: pdf(2.23 MB) Additional Information: full citation, abstract, references, citings

In relational databases, an attribute of a relation can have only a single primitive value, making it cumbersome to model complex objects. The object-oriented paradigm removes this difficulty by introducing the notion of nested objects, which allows the value of an object attribute to be another object or a set of other objects. This means that a class consists of a set of attributes, and the values of the attributes are objects that belong to other classes; that is, the definition of a class fo ...

Keywords: index selection, physical database design, query optimization

19 Batching annealing operations to optimize queueing times and furnance efficiency: a simulation model

Pierre Lefrançois, Pierre L'Espérance, Marc Turmel
December 1991 **Proceedings of the 23rd conference on Winter simulation WSC '91**
Publisher: IEEE Computer Society
Full text available: pdf(858.47 KB) Additional Information: full citation, references, index terms

20 Concurrency and distribution in object-oriented programming

Jean-Pierre Briot, Rachid Guerraoui, Klaus-Peter Lohr
September 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 3
Publisher: ACM Press
Full text available: pdf(289.34 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper aims at discussing and classifying the various ways in which the object paradigm is used in concurrent and distributed contexts. We distinguish among the library approach, the integrative approach, and the reflective approach. The library approach applies object-oriented concepts, as they are, to structure concurrent and distributed systems through class libraries. The integrative approach consists of merging concepts such as obj ...

Keywords: concurrency, distribution, integration, libraries, message passing, object, reflection

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PRODUCTS

Batch Manager

BatchManager is used to run unattended tests without having to write or program cumbersome external "harnesses" to do such tasks. There are several reasons why test engineers may want to submit batch of tests -

- **Off hours testing:** If the testing needs to be done at off peak times, or needs to be scheduled, this is a very important must-have.
- **Avoiding manual errors:** When conducting a large number of tests, a better approach than having a "dance-card approach" is to let the system efficiently follow all the steps required to produce results you need to analyze tests.
- **Object Orientation:** Designing tests in batch forces a more disciplined, object oriented testing approach which in some cases is better than finishing the testing part with "data collection holes".

BM works with all 4 Load Generator modules

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- **GroupSizr**
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BM is a full factorial visual programming system to do batch tests.

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